

Product datasheet for **TL305302**

COL13A1 Human shRNA Plasmid Kit (Locus ID 1305)

Product data:

Product Type:	shRNA Plasmids
Product Name:	COL13A1 Human shRNA Plasmid Kit (Locus ID 1305)
Locus ID:	1305
Synonyms:	CMS19; COLXIIIA1
Vector:	pGFP-C-shLenti (TR30023)
E. coli Selection:	Chloramphenicol (34 ug/ml)
Mammalian Cell Selection:	Puromycin
Format:	Lentiviral plasmids
Components:	COL13A1 - Human, 4 unique 29mer shRNA constructs in lentiviral GFP vector(Gene ID = 1305). 5µg purified plasmid DNA per construct 29-mer scrambled shRNA cassette in pGFP-C-shLenti Vector, TR30021, included for free.
RefSeq:	NM_001130103 , NM_005203 , NM_080798 , NM_080799 , NM_080800 , NM_080801 , NM_080802 , NM_080803 , NM_080804 , NM_080805 , NM_080806 , NM_080807 , NM_080808 , NM_080809 , NM_080810 , NM_080811 , NM_080812 , NM_080813 , NM_080814 , NM_080815 , NM_001320951 , NM_080802.1 , NM_080802.2 , NM_080802.3 , NM_080805.1 , NM_080805.2 , NM_080805.3 , NM_080800.1 , NM_080800.2 , NM_080800.3 , NM_005203.1 , NM_005203.2 , NM_005203.3 , NM_080801.1 , NM_080801.2 , NM_080798.1 , NM_080798.2 , NM_080798.3 , NM_001130103.1 , NM_080807.2 , NM_080808.2 , NM_080811.2 , NM_080814.2 , NM_080803.2 , NM_080799.2 , NM_080804.2 , NM_080809.2 , NM_080810.2 , NM_080812.2 , NM_080813.2 , NM_080815.2 , BC136385 , BC139913 , BM744248 , NM_001368882 , NM_001368884 , NM_001368885 , NM_001368895 , NM_001368896 , NM_001368898 , NM_001368883 , NM_001368886 , NM_001368897 , NM_080798.4 , NM_080802.4 , NM_080801.4 , NM_080805.4 , NM_080800.4 , NM_001130103.2
UniProt ID:	Q5TAT6



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Summary:	<p>This gene encodes the alpha chain of one of the nonfibrillar collagens. The function of this gene product is not known, however, it has been detected at low levels in all connective tissue-producing cells so it may serve a general function in connective tissues. Unlike most of the collagens, which are secreted into the extracellular matrix, collagen XIII contains a transmembrane domain and the protein has been localized to the plasma membrane. The transcripts for this gene undergo complex and extensive splicing involving at least eight exons. Like other collagens, collagen XIII is a trimer; it is not known whether this trimer is composed of one or more than one alpha chain isomer. A number of alternatively spliced transcript variants have been described, but the full length nature of some of them has not been determined. [provided by RefSeq, Jul 2008]</p>
shRNA Design:	<p>These shRNA constructs were designed against multiple splice variants at this gene locus. To be certain that your variant of interest is targeted, please contact techsupport@origene.com. If you need a special design or shRNA sequence, please utilize our custom shRNA service.</p>
Performance Guaranteed:	<p>OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.</p> <p>For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).</p>